

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-3. (Canceled).

4. (Currently Amended) A projecting apparatus having:

a reflection type light modulating element for modulating light by diffraction, deflection or scattering;

~~an illuminating optical system for illuminating said light modulating element~~
with light a scanning optical system for selectively reflecting a first beam incident into a reflection area of said scanning optical system, scanning a plane to be projected with the reflected first beam, and transmitting a second beam incident into a transmission area of said scanning optical system; and

~~a scanning optical system for scanning the light from said light modulating element; said scanning optical system having a deflecting mirror for selectively deflecting a beam of the light from said light modulating element which has been subjected to said modulation, and a projection optical system for projecting said beam from said deflecting mirror, wherein said illuminating optical system has a lens system of which said light modulating element side opposed to said light modulating element is telecentric, and the light from said reflection type light modulating element propagates to the position of said deflecting mirror through said telecentric lens system~~ an illuminating optical system including

a lens system, for illuminating said reflection type light modulating element with illumination light from a light source,

wherein said illuminating optical system illuminates said reflection type light modulating optical element with light which has transmitted through the transmission area of said light scanning optical system, and

wherein a reflection type light modulating element side of said lens system is telecentric.

5. (Canceled).

6. (Canceled)

7. (Canceled)

8. (Previously Presented) A projecting apparatus according to claim 4, wherein said light modulating element has an elongate light modulating area in which a plurality of light modulating portions corresponding to pixels are arranged in a certain direction, and said illuminating optical system has one or more anamorphic optical elements for illuminating said light modulating element with a light elongate in the direction of arrangement of said plurality of light modulating portions.

9. (Original) A projecting apparatus according to claim 8, wherein said scanning optical system scans the beam from said light modulating element only in a direction orthogonal to the lengthwise direction of said light modulating area.

10. (Original) A projecting apparatus according to claim 9, wherein said light modulating element has a light modulating area in which a plurality of light modulating portions are arranged also in the direction orthogonal to said lengthwise direction.

11. (Original) A projecting apparatus according to claim 8, wherein said

scanning optical system scans the light from said light modulating element in the lengthwise direction of said light modulating area and a direction orthogonal to said lengthwise direction.

12. (Previously Presented) An optical scanning apparatus according to claim 4, wherein said light modulating element has the function of forming a light diffracted, deflected or scattered or forming a light not diffracted, deflected or scattered, in conformity with an input signal, comprises, an electro-mechanical element or a liquid crystal element, and forms a light diffracted, deflected or scattered in conformity with an ON signal and form a light not diffracted, deflected or scattered in conformity with an OFF signal.

13. (Previously Presented) A projecting apparatus according to claim 4, wherein said light modulating element modulates light in conformity with an image signal, and a two-dimensional image is formed by the beam projected by said projection optical system.

14. (Original) A projecting apparatus according to claim 8, wherein said light modulating element modulates light in conformity with an image signal, and a two-dimensional image is formed by the beam projected by said projection optical system.

15. (Original) A projecting apparatus according to claim 14, wherein said scanning optical system scans the beam from said light modulating element only in a direction orthogonal to the lengthwise direction of said light modulating area.

16. (Original) A projecting apparatus according to claim 15, wherein said light modulating element has a light modulating area in which a plurality of light modulating portions are arranged also in the direction orthogonal to said lengthwise direction.

17. (Canceled).

18. (Currently Amended) ~~An optical scanning apparatus~~ image display apparatus for projecting an image onto a display plane, comprising:

a light modulating element ~~capable of changing~~ which changes an emerging direction of an emerging light emerged from the light modulating element on the basis of an image signal; and

a scanning ~~optical system having~~ mirror which has a reflection area ~~which reflects and scans a first emerged light emerged from the light modulating element for~~ reflecting a part of the emerging light and scanning the display plane with the part of the emerging light, and a transmission area ~~which transmits a second emerged light emerged in a direction different from that of the first emerged light. for transmitting another part of the~~ emerging light,

wherein a direction along which the part of the emerging light emerges from the light modulating element is different from a direction along which the another part of the emerging light emerges from the light modulating element.

19. (Previously Presented) An optical scanning apparatus according to claim 18, wherein the light modulating element is capable of changing the emerged direction of light emerged from the light modulating element by a diffraction, polarization, or scattering, and further capable of stopping affects of the diffraction, polarization or scattering.

20. (Currently Amended) An optical scanning apparatus according to claim 18, further comprising an illumination optical system which ~~guiding~~ guides light from a light source to the light modulating element, and a projection optical system which projects light from the scanning optical system onto ~~a surface to be scanned~~ the display plane.

21. (Currently Amended) An image display apparatus for projecting an image onto a display plane, comprising:

a light modulating element ~~capable of changing which changes~~ an emerging direction of an emerging light emerged from the light modulating element on the basis of an image signal; and

a scanning optical system ~~having which has~~ a reflection area ~~which reflects and scans an emerged light emerged from the light modulating element~~ for reflecting a part of the emerging light as an image light and scanning the display plane with the part of the emerging light, and a transmission area ~~which transmits light emerged which is not the image light in a direction different from that of the image light~~ for transmitting another part of the emerging light as an non-image light,

wherein a direction along which the part of the emerging light emerges from the light modulating element is different from a direction along which the another part of the emerging light emerges from the light modulating element.

22. (Currently Amended) An image display apparatus according to claim 21, further comprising: a projection optical system which projects the image light on the display plane ~~on a surface to be scanned the image light reflected and scanned by the scanning optical system~~.

23. (Currently Amended) An image display apparatus according to claim 22, wherein the another part of the emerging light is substantively incident into the projection optical system ~~light which is not the image light is practically made incident into the projection optical system~~.

24. (Previously Presented) An image display apparatus according to claim 21, wherein the light modulating element is capable of changing the emerged direction of light emerged from the light modulating element by a diffraction, polarization, or scattering, and further capable of stopping affects of the diffraction, polarization or scattering.

25. (Currently Amended) An image display apparatus according to claim 21, further comprising an illumination optical system which ~~guiding~~ guides light from a light source to the light modulating element, and

wherein the illumination optical system guides the light from the light source to the optical modulating element through the transmission area.